

VA Medical Center
Grand Island, Nebraska
636-12-103, Renovate Backfill Canteen Space
Addendum No. 2

Attachment A

SECTION 12 28 10

INTERIOR ROLLER SHADES

PART 1 GENERAL

1.1 SUMMARY

A. SCOPE

- 1.) The following specifications detail the minimum performance and related criteria for a manually operated shade control system proposed for this project. Any deviations from this specification must be submitted in the format defined in section 2.1.
- 2.) Provide all materials from a single manufacturer in locations as specified.
- 3.) Furnish and install all window shades and fascia (as required), accessories and attaching hardware.
- 4.) Product shall be shipped to and stored by the window covering contractor until which time it is installed on site. There will be no on-site storage for the shades. Delivery of shades to the site shall be on an as installed basis. Deliver shades to project in protective packaging, labeled to identify each shade for each opening.
- 5.) Installation shall include removal and disposal of existing window treatments. Removal of existing window treatments shall include draperies and/or vertical blinds. Where vertical blinds are installed underneath draperies, over treatments or valances, only the vertical blinds shall be removed of and disposed of; all over treatments shall be retained. Coordinate questions regarding removal and removal of existing window treatments with the VA Medical Center Contracting Officer's Technical Representative. Contractor shall provide the VA Medical Center Contracting Officer's Technical Representative with a written list of patching and touch up required where existing window coverings are removed.
- 6.) Installation shall include removal and disposal of all packaging materials.
- 7.) Contractor shall coordinate the removal of existing window coverings and installation of new window coverings with the VA Medical Center Contracting Officer's Technical Representative as well as the VA Medical Center staff. The work within each room shall be expedited from start to finish minimizing interruption of patients and staff.

- 8.) Contractor shall be responsible for all field measurements, verification of the location of the operating control, verification of site conditions, including recessed pockets where shades are to be installed (if applicable), and verification of fascia requirement (where roller tube is visible and shade is not set into pocket).

1.2 SUBMITTALS

A. PRODUCT DATA

- 1.) Submit manufacturer's descriptive literature for each product type specified. Details shall include product brochures and technical documents indicating materials, finishes, construction, and mounting requirements. Also include installation, operating and maintenance instructions.

B. SHOP DRAWINGS

- 1.) Indicate structural mounting requirements and installation methods as well as relevant dimensions for each product type and mounting condition.
- 2.) Provide shade schedule coordinating room number, opening size(s), quantities, fascia requirement and key to any details.
- 3.) Provide information indicating seam location (if seam is required) for each shade.
- 4.) Provide manufacturer's installation and maintenance instructions.

C. SAMPLES

- 1.) Provide 8"x10" samples of each fabric type specified for verification of color, weave, and density.

1.3 QUALITY ASSURANCE

A. QUALIFICATIONS

- 1.) Manufacturer shall have 15 years minimum experience manufacturing products comparable to those specified in this section.
- 2.) Manufacturer shall furnish all shading systems and equipment for a complete installation.
- 3.) The contractor shall be approved to supply the products specified and to honor any claims against the product presented in accordance with the warranty.
- 4.) Installer shall be qualified to install the specified products by prior experience, demonstrated performance, and acceptance of any requirement of the manufacturer.

1.4 SCHEDULING

- A. Shades shall not be fabricated without obtaining field dimensions for each opening. Contractor shall be responsible for all measurements.

- B. Contractor shall be responsible for coordination of installation with the VA Medical Center Contracting Officer's Technical Representative as well as the VA Medical Center staff in locations where shades are to be installed. Coordinate construction of surrounding conditions to allow for timely field dimension verification.
- C. Contractor shall be responsible for coordinating with the above VA Medical Center personnel to ensure that work within each room from start to finish is expedited in order to minimize interruption of patients and staff.
- D. Contractor shall advise the above VA Medical Center personnel on lead times and installation schedule.

1.5 WARRANTY

- A. Manufacturer to provide written limited warranty of not less than 8 years, beginning on the date of installation.
 - 1.) The limited warranty shall cover 100% of the parts and manufacturer's labor costs required over the first two years.
- B. In the event of a warranted product failure, the shade contractor will facilitate acquisition and delivery of all necessary components and services to the owner.

1.6 MAINTENANCE

- A. EXTRA MATERIALS
 - 1.) The manufacturer shall make available to the end user a method of ordering new shading systems for expansions, replacement, or parts to be used as spares.
 - 2.) The manufacturer must make available new or remanufactured parts for a minimum period of ten years from the final date of commissioning.
- B. MAINTENANCE SERVICE
 - 1.) The manufacturer shall offer to make available to the end user a method of ordering factory service, new or remanufactured replacement parts, and a service contract that extends the factory-limited warranty from two years to five years.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. To establish the standard of quality, design, and function desired, drawings and specifications are based on products by:

Lutron Shading Solutions by VIMCO
11520 Sun Shade Lane
Ashland, Virginia 23005
United States of America

Telephone 1: 1 (800) 446-1503
Telephone 2: 1 (804) 752-3300
Fax: 1 (804) 752-3366
24/7 Technical Support: 1 (800) 523-9466
Website: <http://www.vimco.com>

- B. All proposed alternates (clearly delineated as such) must be submitted in writing for approval by the Design Professional a minimum of 10 days prior to bid date and must be made available to all bidders.

1.) Proposed alternatives must be accompanied by a review of the specification noting compliance or noncompliance on a line-by-line basis.

a.) If noncompliance requires additional work by other trades, this must be clearly identified.

2.2 MANUAL SHADE SYSTEMS

A. DRIVE MECHANISM / OPERATOR

1.) CLUTCH BRAKE MANUAL SHADE SYSTEM

a.) General

- i. Clutch Roller Shades shall be a ball chain-operated system utilizing a bidirectional wrap spring clutch.
- ii. The system must be capable of smoothly raising and lowering the shade to any desired height and maintaining that position without slippage.
- iii. The shade cannot be operable by any other means other than the chain. Pulling on the hem bar will not disengage the clutch.
- iv. The system will provide a maximum fabric gap of 0.75" per side.

b.) Clutch and Tube Specifications

- i. System shall incorporate a bi-directional wrap spring clutch and never require any adjustment of the shade.
- ii. Shade shall stop upon release of clutch. Systems that slide to a stop are not acceptable.
- iii. Clutch may be mounted on either the right or left end of the roller tube and fabric may be forward or reverse rolled.

- iv. The clutch shall be made of high-strength fiberglass reinforced polyester with high carbon steel springs.
 - v. Manufacturer shall identify appropriate shade tube and clutch size based on shade size, fabric type, and application requirements.
 - vi. Fabric shall be connected to tube with double-sided adhesive strip applied for exact and firm mounting of the fabric and for easy adjustment of fabric to prevent telescoping.
 - i. A minimum of one turn of fabric will be placed on the roller before the working section of fabric starts to protect the fabric and smooth out the starting seam.
- c.) Clutch Control Loop
- i. Chain will be made of #10 stainless steel 90-pound test ball chain.
 - ii. Chain will be provided with connector and upper and lower ball stops.
- d.) Clutch Idle End Cap
- i. Two-piece unit consisting of an outside sleeve and center bearing shaft made of high-strength fiberglass reinforced polyester.
 - a. The outside sleeve shall be free to rotate on the shaft, providing the bearing surfaces on which the roller rides in order to provide a smooth and quiet rotation without wearing on the system.
- e.) Clutch Mounting Brackets
- i. Shall be .072" galvanized steel
 - ii. Shall be universally applicable for mounting inside, outside or to the ceiling, with the clutch on either the right or left side of the roller.
 - iii. The clutch mounts flush to the face of the bracket resulting in the smallest possible light gap between fabric and window frame.
- f.) Lift Assist Spring
- i. General
 - a. Depending upon shade weight and size, manufacturer may require a lift assist spring to prevent excessive deflection along the length of the tube.

- b. Spring shall be a torsion roller spring with a polymer injection molded tube fitting and ball bearing stops used to maintain shade position.
 - ii. List Assist Spring Mounting Brackets
 - a. Shall be .060" galvanized steel.
 - b. Shall be universally applicable for mounting inside, outside or to the ceiling.
 - c. Shall have a locking device that provides safe retention of the spring end in its bracket.
 - iii. Lift Assist Spring Idle End Cap
 - a. Shall be a polymer injection molded insert.
 - b. Shall have a protruding galvanized steel roller pin that engages the bracket.

B. FABRICS

1.) GENERAL

- a.) Where applicable, shade fabric will be ultrasonically cut and friction sealed to minimize fraying.
- b.) Woven yarn fabrics will be interlocking and heat-treated so that all material is securely bonded.
- c.) Fabrics shall be flame retardant and must meet or exceed requirements of NFPA test #701.

2.) MATERIAL

- a.) FABRIC (Single Shade WT-1)
 - i. Lutron Type: Sheersshade, Name: Privacy Basketweave
 - a. Openness Factor - 1% (UV Blockage of 99%). Fabric Composition - 24% polyester, 76% vinyl on polyester. Fabric # PP-07-48-1, Color: Alabaster
- b.) FABRIC (Double Shade WT-2)
 - i. Lutron Dual Mounted Manual Shades Type: Sheersshade, Name: Privacy Basketweave
 - a. Black-out shade (rear shade) - Lutron Dual-Mount Manual Shades, Fabric: Value Premiere, Color: BP-P62-0, Color : White Openness factor - 0%
 - b. Light-filtering shade (front shade) - Lutron Dual-Mount Manual Shades, Fabric: Sheersshade, Name: Basketweave, Fabric # PP-07-48-1, Color: Alabaster Openness factor 1%

C. TRIM

1.) TOP TREATMENTS

a.) Fascia Panel shall be installed to conceal the roller tube and mounting hardware. Fascia shall be installed in locations where the roller tube is exposed (not hidden in a ceiling pocket). Fascia shall hook onto the top of the bracket and snap in place, remaining firmly attached. Either three or four inch high fascia panel shall be made of .075" extruded aluminum and shall be of a clear anodized aluminum finish. 3" fascia may only be used with V8 or V16 shades.

i. Fascia Mounting Brackets shall support both the roller tube and the fascia panel and be capable of mounting inside, outside or to the ceiling, with the operator on either the right or left side of the roller. All fascia brackets will be made of .075" zinc coated steel.

ii. All fascia panels shall be of the same height (either 3" or 4"), when installed in the same area.

2.) BOTTOM TREATMENTS

a.) Hem Bar

i. Standard Hem Bar shall be a 1" wide by .1875" thick extruded aluminum bar enclosed in a thermally-sealed pocket across the bottom of the shading fabric.

b.) Where applicable, shade material will be ultrasonically-welded for reinforced strength around sealed hem bar.

2.3 FABRICATION

A. Critical shade measurements shall be accurate to within $\pm 1/16"$ of specified measurements.

2.4 FINISHES

A. METAL FINISHES

1.) Colors and Finishes: All aluminum extrusions shall be clear anodized.

PART 3 EXECUTION

3.1 EXAMINATION

A. Refuse delivery of any damaged packaging.

B. Ensure all parts match specified bill of materials and purchase order.

3.2 INSTALLATION

- A. Field measurements are required and installation shall be performed by a manufacturer's qualified installer.
 - 1.) Contractor shall be responsible for all field measurements, verification of the location of the operating control, verification of site conditions including recessed pocket where shades are to be installed, and verification of fascia requirement (where roller tube is visible and shade is not set into pocket).
 - 2.) Shades shall be installed outside the glass portion of the window on the aluminum frame as an inside mount shade.
- B. Install shades in windows level and plumb to provide smooth operation.
- C. Install in accordance with manufacturer's product data and approved shop drawings.
- D. Installation shall include removal and disposal of existing window treatments (see section 1.1), installation of new window treatments and removal and disposal of all packaging materials. Contractor shall be responsible to coordinate all installations with the VA Medical Center Contracting Officer's Technical Representative and VA Medical Center staff. The work within each room from start to finish should be expedited in order to minimize interruption of patients and staff.
- E. Contractor shall provide to the VA Medical Center Contracting Officer's Technical Representative a written list of locations where patching and painting is required due to removal of existing window coverings.
- F. After installation, contractor shall adjust the fabric on the tube to prevent telescoping of fabric over time.

3.3 CLEANING

- A. Touch up damaged finishes and repair minor damage in order to eliminate evidence of repair. Remove and replace work that cannot be satisfactorily repaired.
- B. Clean exposed surfaces, including metal and shade fabric, using non-abrasive materials and methods recommended by the Shade Fabric Manufacturer. Remove and replace work that cannot be satisfactorily cleaned.
- C. Contractor shall be responsible for disposal of all packaging materials.

3.4 DEMONSTRATION

Demonstrate operation method and instruct Owner's personnel in the proper operation and maintenance of the window shade systems.

END OF SECTION